

FIG. 1

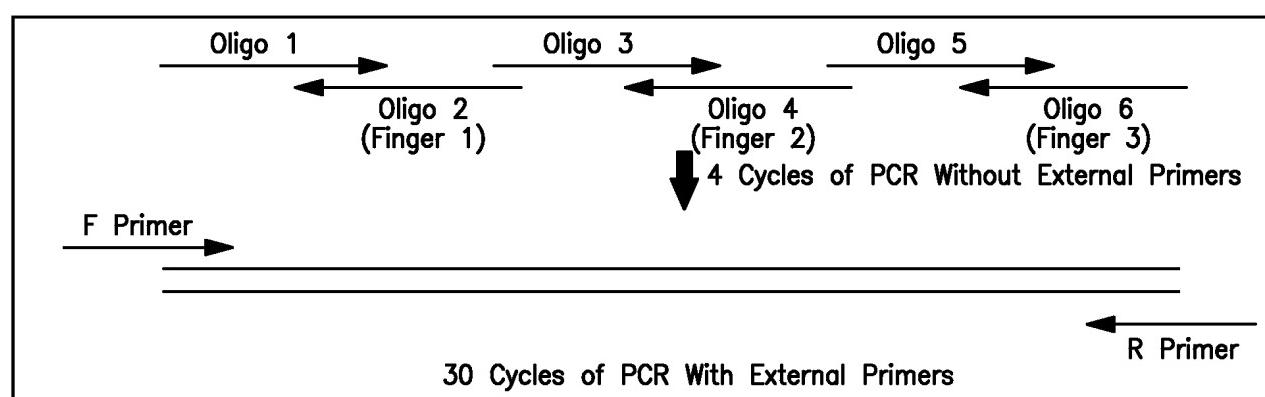


FIG. 2

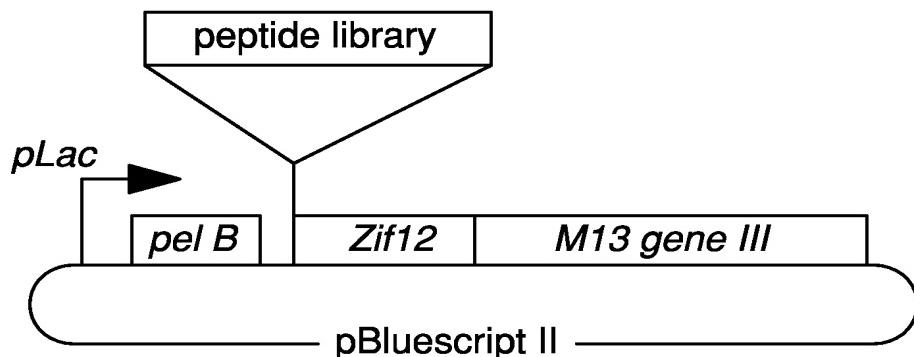


FIG. 3A

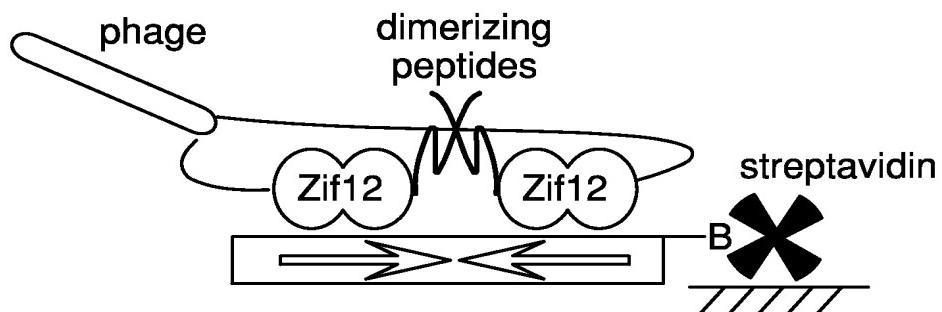


FIG. 3B

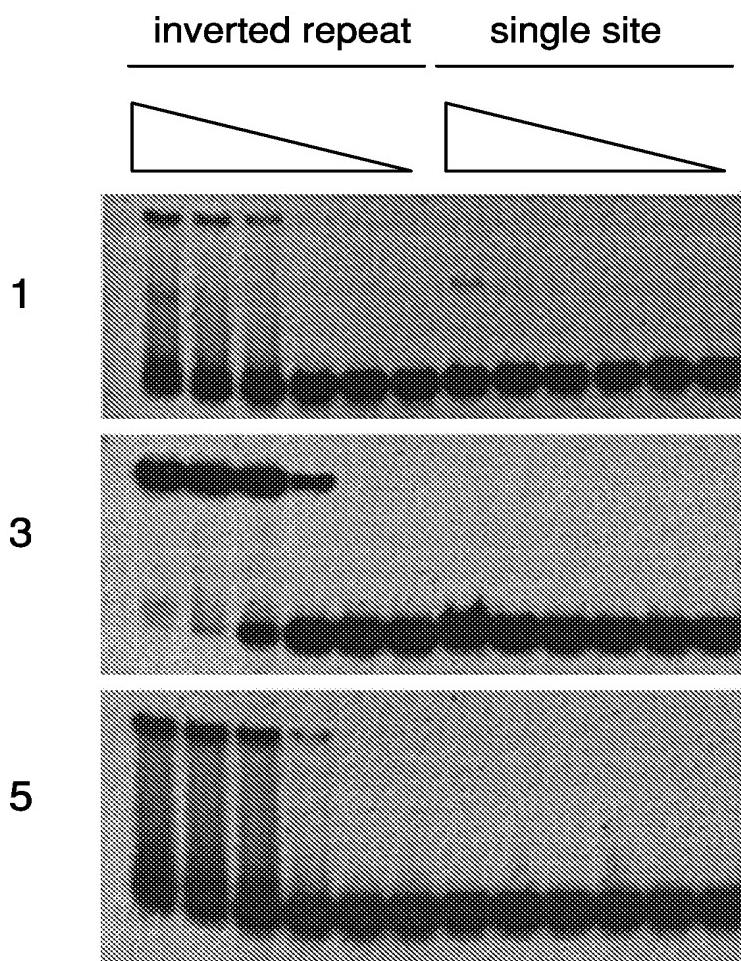
5' -GCAG **TGGGCGCGCCC**ACAGTACTTGAACGTAACG— Bio
3' -CGTC **ACCCGCGCGGGT**GTCATGAACTTGCATTGC

FIG. 3C

FIG. 4A

peptide 1: GGGQWLGTWEWYGPK (10)
2: YEKISVEGIKDVRVR (9)
3: NVSIEGVLKYYRGLR (6)
4: RSCGLDYEGYWLKIK (13)
5: SRWLEEEEVSRLLLLR (6)
6: GEALDRFEREMKLMR (1)

FIG. 4B



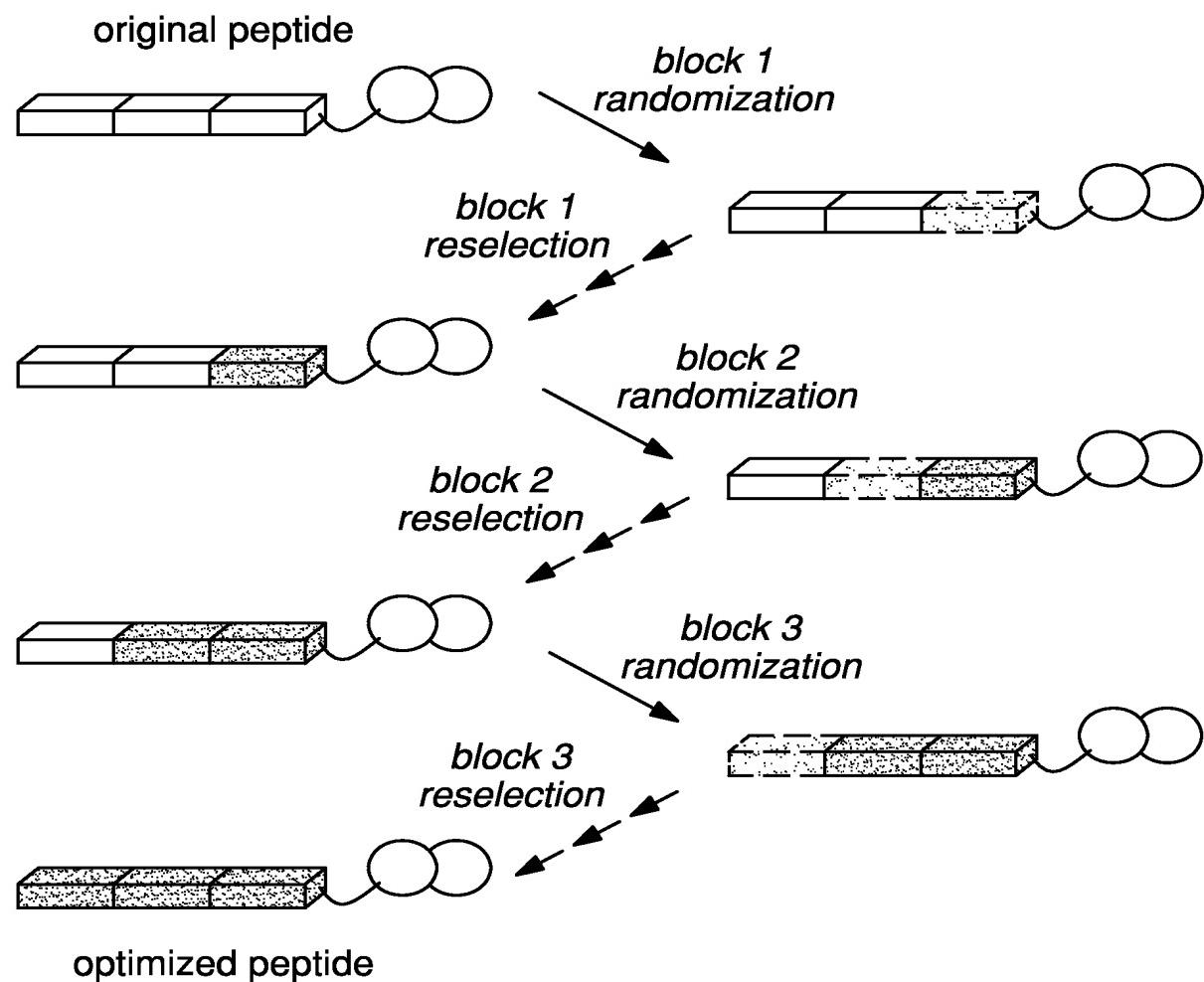


FIG. 5

<i>peptide 1</i>	GGGQW LGTWE WYGPK - <i>Zif12</i>	<i>peptide 5</i>	SRWLE EEVSR LLLL R - <i>Zif12</i>
Step 1 (Cycle 6)	GGGQW LGTWE HPKMK GGGQW LGTWE PAKIR GGGQW LGTWE VPKSR GGGQW LGTWE VPRLK GGGQW LGTWE APKLR GGGQW LGTWE HAKIR GGGQW LGTWE VVKMR GGGQW LGTWE PVKMR Step 1 (Cycle 9)	E21D	FRWLE EEVSR MRLWR FRWLE EEVSR MRGWK FRWLE EEVSR MRGWK FRWLE EEVSR MRKWR SRWLE EEVSR MRKWR SRWLE EEVSR MRKWR SRWLE EEVSR MRKWR SRWLE EEVSR MGVMR E21D
Step 2 (Cycle 9)	GGGQW LLNYK VPKQR GGGQW LLNYV VPKQR GGGQW LLDYI VPKQR GGGQW LLNYI VPKQR GGGQW LLQYV VPKQR GGGQW LLNYV VPKQR GGGQW LLEYK VPKQR GGGQW LLDYV VPKQR	E21D	SRWLE EYLES MRKWR SRWLE DYYVTQ MRKWR SRWLE DYLLAD MRKWR SRWLE EYLTF MRKWR SRWLE QYLED MRKWR SRWLE DYVVSQ MRKWR SRWLE SYLDK MRKWR SRWLE EYMSD MRKWR
Step 3 (Cycle 6)	HPMNN LLNYV VPKMR HPMNN LLNYV VPKMR PPSTE LLNYV VPKLR QKYGD LLNYV VPKLR ENYEK LLNYV VPKLR ENYEK LLNYV VPKLR	E21D	QPWL T EYLES MRKWR PPWL T EYLES MRKWR PPWL K EYLES MRKWR PAWLT EYLES MRKWR PAWLA EYLES MRKWR WAWL D EYLES MRKWR PPWL K EYLES MRKWR PTWL K EYLES MRKWR
<i>peptide 1*</i>	HPMNN LLNYV VPKMR - <i>Zif12</i>	<i>peptide 5*</i>	PAWLT EYLES MRKWR - <i>Zif12</i>
<i>peptide 1*</i>	ENYEK LLNYV VRKLR - <i>Zif12</i> (variant)		

FIG. 6

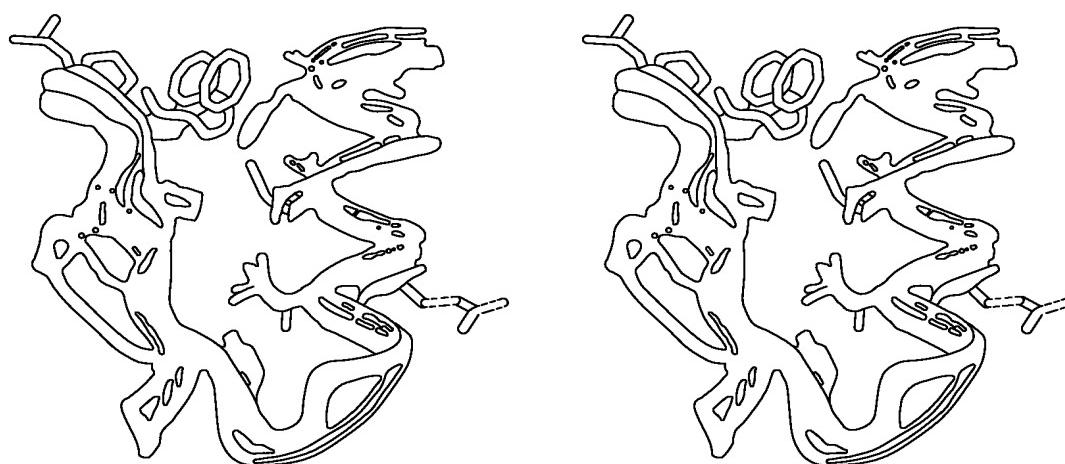


FIG. 7A

ZIF1: P Y A C P V K S C D R R F S R S D E L T R K T R I R T
GLI1: E T D C F W D G C S Q E F D S Q E Q L V K H I N S E H I
GLI2: K K V C F W G G C S K E L R F F K A Q Y M L V V M M K R H T
SWI1: T K E C L F K C C T K T F K K K Y N L R C M I Q T H L

FIG. 7B

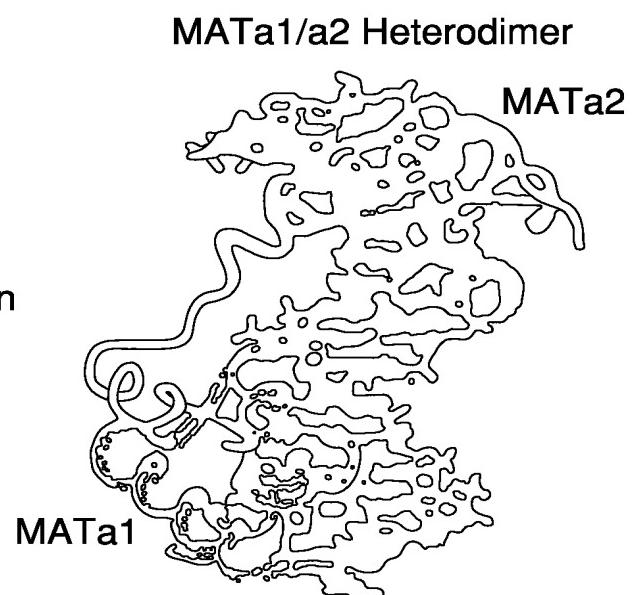
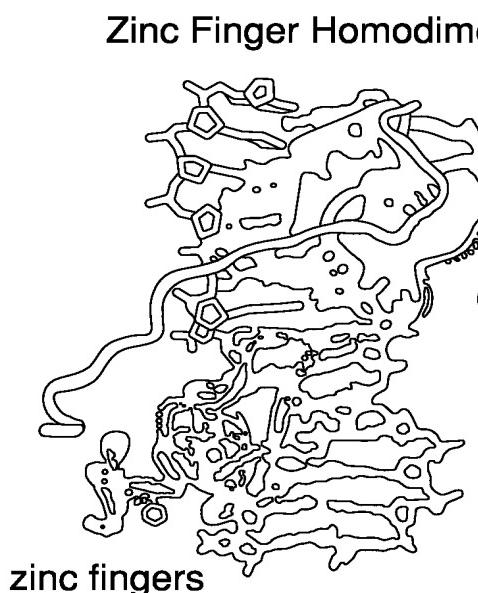


FIG. 8A

FIG. 8B

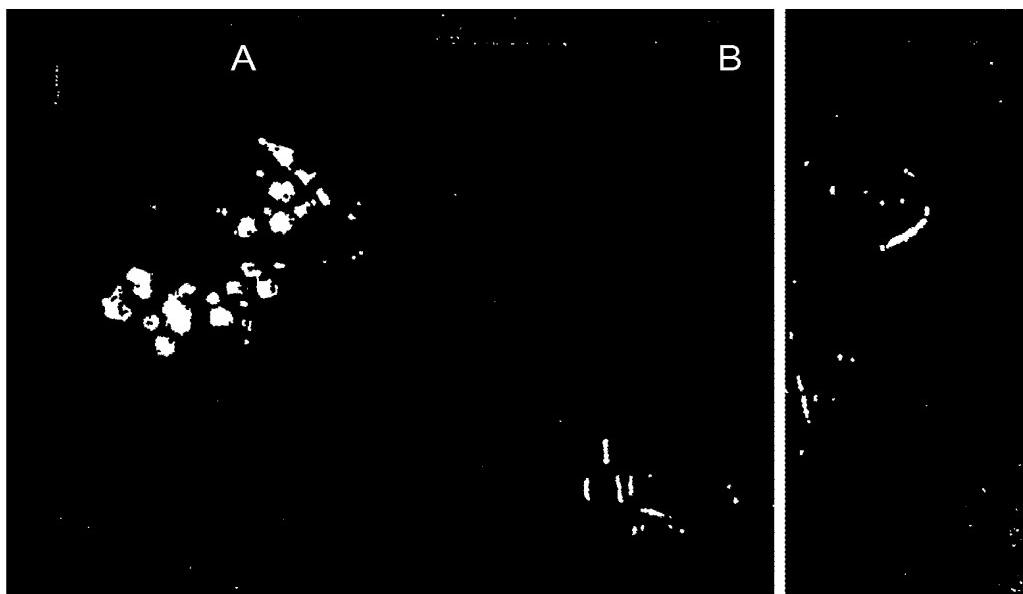


FIG. 9